09/690,812.

Docket No.: 1095.1139

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of:

Makoto FUJIEDA

Patent No. 6,885,367

Issued: April 26, 2005

For: THREE-DIMENSIONAL MODEL MANAGEMENT SYSTEM

REQUEST FOR RECONSIDERATION OF DENIAL OF CERTIFICATE OF CORRECTION

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Certificate
JAN 1 9 2006
of Correction

Attached is a November 14, 2005 Denial of the Request for Applicant's Certificate of Correction filed on October 26, 2005.

Initially, it is noted that the November 14, 2005 Denial was mailed to Barry Bretschneider of Morrison & Foerster <u>and</u> Mark J. Hyman of Human Genome Sciences, Inc., neither of which is an attorney of record in this application. Please see the attached PAIR attorney information for this application. It is requested that the U.S. Patent and Trademark's records be corrected, if necessary, and that no further correspondence be sent to these other attorneys.

Regarding the Denial, it is indicated that "the correction...requested is printed in accordance with the record, therefore no correction is in order here under Rule 1.322." However, no further explanation is provided.

In the Request for Certificate of Correction, it was requested that in claim 9 the following change be made:

> ...output means for outputting the ~~attribute~~ information edited by
> the editing means to a display device.

These two lines are found at column 17, lines 34-35 as counted from the top of the column.

Attached is a copy of the last Response filed in the application, on March 17, 2004. In this Response please note claim 9, last phrase, which is as follows:

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"output means for outputting the ~~attribute~~ information edited by the editing means to a display device."

This claim 9 retained its numbering in the issued patent.

Thus, in contrast to the reason given in the Denial, Applicant requested that the term "attribute" be deleted from claim 9, last phrase in the March 17, 2004 Response, and this request was not reflected in the issued patent.

It is again respectfully requested that a Certificate of Correction be issued for this application, wherein column 17, line 34 is amended by deleting the word "attribute".

Respectfully submitted,

STAAS & HALSEY LLP

Date: 1/13/01

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JAN 24 2006

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UNITED STATES PATENT AND TRADEMARK OFFICE

Date Mailed : November 14, 2005

Patent No. : 6,885,367 B1
Patent Issued : April 26, 2005
Inventor(s) : Makoto Fujieda
Title : THREE-DIMENSIONAL MODEL MANAGEMENT SYSTEM

Re: Request for Certificate of Correction

Consideration has been given your request for the issuance of a certificate of correction for the above-identified patent under the provisions of Rule 1.322.

The correction you requested is printed in accordance with the record, therefore no correction is in order here under Rule 1.322.

In view of the foregoing your request is hereby denied.

Relief may be sought by submitting a fee of $100.

Magdalene Talley
For Cecelia B. Newman, Supervisor
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SUBMIT

09/690,812   THREE - DIMENSIONAL MODEL MANAGEMENT SYSTEM

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Application Data	Transaction History	Image File Wrapper	Patent Term Adjustments	Foreign Priority	Published Documents	Fees	Address & Attorney/Agent

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Please Date Stamp and return

Amendment (8 pgs) with transmittal (1 pg), check $86

APPLICANT(S):	Makoto FUJIEDA
SERIAL NO:	09/690,812
CONFIRMATION NO.	2768
TITLE:	THREE-DIMENSIONAL MODEL MANAGEMENT SYSTEM
FILING DATE:	October 18, 2000
DOCKET NO:	1095.1139/JRB:TA
DUE DATE:	March 17, 2004

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: :

Makoto FUJIEDA

Serial No. 09/690,812   Group Art Unit: 2671

Confirmation No. 2768

Filed: October 18, 2000   Examiner: Huedung X. Cao

For: THREE-DIMENSIONAL MODEL MANAGEMENT SYSTEM

AMENDMENT

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Attention: **BOX AF**

Sir:

      This is in response to the Office Action mailed December 17, 2004, and having a period for response set to expire on March 17, 2004.

      The following amendments and remarks are respectfully submitted. Reconsideration of the claims is respectfully requested.

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1-7, and 9-13, and ADD new claims 14 and 15 in accordance with the following:

1. (CURRENTLY AMENDED) A three-dimensional model management system for managing a three-dimensional model in which relationship of subordination of individual parts is represented by a hierarchical structure, comprising:

attribute information acquiring means for acquiring ~~attribute information~~a part name defined in a computer-aided design system and hierarchical structure information of individual three-dimensional parts constituting the three-dimensional model expressing combination structure of each part including three-dimensional part specific to the computer- aided design system;

sorting means for sorting the ~~attribute~~ part name information acquired by said attribute information acquiring means in accordance with the hierarchical structure;

display form setting means for displaying the ~~attribute~~ part name information;

editing means for editing the ~~attribute~~ part name information sorted by said sorting means, in accordance with settings by said display form setting means; and

output means for outputting the ~~attribute~~ part name information edited by said editing means to a display device.

2. (CURRENTLY AMENDED) The three-dimensional model management system according to claim 1, wherein said editing means excludes ~~attribute~~ acquired information of a predetermined part such that the predetermined part is not displayed on a display screen of the display device.

3. (ORIGINAL) The three-dimensional model management system according to claim 1, further comprising classifying means for classifying the ~~attribute~~ information acquired by said attribute information acquiring means according to attributes,

wherein said editing means refers to a result of classification by said classifying means

and excludes part nameattribute information of a part having a predetermined attribute such that said part is not displayed on a display screen of the display device.

4. (CURRENTLY AMENDED) The three-dimensional model management system according to claim 1, wherein said editing means rearranges part nameattribute information of a part at a lower hierarchical level than a predetermined hierarchical level in the hierarchical structure of the three-dimensional model such that said part belongs to the predetermined hierarchical level.

5. (CURRENTLY AMENDED) The three-dimensional model management system according to claim 1, further comprising redefining means for redefining, as a single part, a group of parts which are defined in the three-dimensional model as a plurality of parts, and for generating a new part nameattribute information on the redefined part.

6. (CURRENTLY AMENDED) The three-dimensional model management system according to claim 5, wherein said redefining means redefines a predetermined part to which a plurality of parts are subordinate at a lower hierarchical level, as a single part including said plurality of parts, and generates a new part nameattribute information on the redefined part.

7. (CURRENTLY AMENDED) The three-dimensional model management system according to claim 1, further comprising specifying means for specifying predetermined part name attribute information displayed by the display device,
three-dimensional data acquiring means for acquiring, from the three-dimensional model, three-dimensional data corresponding to the part nameattribute information specified by said specifying means, and
facet data generating means for generating facet data, which is surface data for display, from the three-dimensional data acquired by said three-dimensional data acquiring means.

8. (ORIGINAL) The three-dimensional model management system according to claim 7, further comprising identification information affixing means for affixing identification information indicative of normal creation to the facet data generated by said facet data generating means.

9. (CURRENTLY AMENDED) A computer-readable recording medium recording a program for causing a computer to manage a three-dimensional model in which relationship of

subordination of individual parts is represented by a hierarchical structure, wherein the program causes the computer to function as

attribute information acquiring means for acquiring ~~attribute information~~ a part name defined in computer-aided design system and hierarchical structure information of individual three-dimensional parts constituting the three-dimensional model expressing combination structure of each part including three-dimensional part specific to the computer- aided design system,

sorting means for sorting the ~~attribute~~ information acquired by the attribute information acquiring means in accordance with the hierarchical structure,

display form setting means for displaying the attribute information;

editing means for editing the ~~attribute~~ information sorted by the sorting means, in accordance with settings by the display form setting means, and

output means for outputting the ~~attribute~~ information edited by the editing means to a display device.

10. (CURRENTLY AMENDED) A computer-readable recording medium according to claim 9, wherein the part name~~attribute~~ information and the model are stored separately.

11. (CURRENTLY AMENDED) The three-dimensional model management system according to claim 1, wherein the part name~~attribute~~ information and the model are stored separately.

12. (CURRENTLY AMENDED) A method for managing a three-dimensional model in which relationship of subordination of individual parts of the model are represented by a hierarchical structure, comprising:

acquiring ~~attribute information~~ a part name defined in computer- aided design system and hierarchical information of individual three-dimensional parts constituting the three-dimensional model expressing combination structure of each part including three-dimensional part specific to the computer- aided design system,

sorting the ~~attribute~~ information acquired by said attribute information acquiring means in accordance with stored hierarchical structure;

displaying a display form in which the ~~attribute~~ part name information is displayed;

editing the ~~attribute~~ information sorted by said sorting means, in accordance with settings by said display form setting means; and

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outputting the ~~attribute~~ information edited by said editing means to a display device.

13.   (CURRENTLY AMENDED) A system for managing a three-dimensional model, comprising:

an information acquiring device acquiring ~~attribute information~~ a part name defined in a computer-aided design system and hierarchical structure information of individual three-dimensional parts constituting the three-dimensional model expressing combination structure of each part including three-dimensional part specific to the computer-aided design system;

a sorting device sorting the ~~attribute~~ information acquired by said information acquiring device in accordance with the hierarchical structure;

a display device to display the ~~attribute~~ part name information;

an editing device to edit the ~~attribute~~ information sorted by the sorting device upon input to the form setting display device; and

an output device outputting the ~~attribute~~ information edited by the editing device.

14.   (NEW) The method according to claim 12, wherein the acquired information includes author and creation information of individual three-dimensional parts.

15.   (NEW) A method for managing individual parts of a three-dimensional model in a computer-aided design system, comprising:

obtaining information in relation to individual three-dimensional parts defined by a computer-aided design system and hierarchical information expressing combination structure of each part including three-dimensional part specific to the computer-aided design system,

sorting the obtained information in accordance with stored hierarchical structure;

displaying a display form in which the information in relation to individual three-dimensional parts defined by a computer-aided design system is displayed;

editing the sorted information in accordance with settings by the display form and producing edited information; and

outputting the edited information to a display device.

REMARKS

In accordance with the foregoing, claims 1-7 and 9-13 have been amended for clarification. New claims 14 and 15 have been added, thus, claims 1-15 are pending and under consideration. Withdrawal of the rejection is requested.

REJECTION UNDER 35 U.S.C. § 103 (a):

In item 2 of the outstanding Office Action, claims 1-13 were rejected under 35 U.S.C. §103(a) in view of U.S. Patent No. 5,689,711 ('711) and U.S. Patent No. 5,272,642 ('642). The rejection is traversed and reconsideration is requested.

The present invention discloses a three-dimensional model management system according to which design dependencies are created to provide efficient utilization of data created by three-dimensional computer-aided design (CAD) systems.

'711 discusses a method and apparatus for producing a dependency graph representation of a design based on an execution of software system functions during a design session.

'642 discusses an apparatus by which the display, search, and modification of elements of a figure, three-dimensional curves, and three-dimensional forms can be effected by a uniform operation method.

A user interface of '711 receives a user's input as a conventional CAD command during a design session (see, column 7, lines 41-43 of '711), and calls a corresponding associative application program interface (API) (see, column 7, lines 46-49, and column 9, lines 46-52 of '711). The associative API and a graph controller then generate a dependency graph using which the system generates a computer program in a non-proprietary language (see, column 7, lines 54-58, and FIG. 1 of '711) to allow the user to edit the computer program to represent a modified product design (see, column 7, lines 54-58 of '711). The information received by the user interface consists of data relating to length, width, height, etc., of the object designed by the user (see, FIG.2 and corresponding text of '711).

The attribute information acquired according to the present invention relates to part names, authors, and creation dates type characteristics of a given object (see, claims 1, 9, 12, and 13, page 10, lines 5-7, and page 15, line 24 through page 16, line 1-2 of the specification of the present invention). Acquiring the part name defined in the CAD system allows the present invention to perform a function based on the part name, such as placing an order for the object.

For example, when a user combines two or more products for creating a single three-dimensional model, the present invention sorts design dependencies of the combined products in accordance with the "hierarchical structure information of individual three-dimensional parts constituting the three-dimensional model expressing combination structure of each part including three-dimensional part specific to the computer aided design system" (see, claims 1, 9, 12 and 13). This permits the present invention to maintain individualized information of each combined product for use with systems such as product data management systems. This is unlike the apparatus of '711, which merely collects information in relation to the formation and location of the object designed by the user.

In '642, a hierarchical data structure of a figure is maintained by acquiring and storing figure elements such as points, lines, circles, and curves in a layer table, which are then arranged upon an input from a user (see, FIG. 4 and FIG. 5 of '642) to generate the figure data and figure layer via a figure processing module (see, column 4, lines 56-59 of '642). Similar to '711, the '642 method maintains a linked hierarchy of layers constituting elements of a figure and does not disclose obtaining "part name" of a three-dimensional model defined in a CAD system.

The systems of '642 and '711 fail to teach or suggest a three-dimensional model management system, which acquires part name of an individual part constituting a three-dimensional model in a CAD system. In addition, '642 and '711 do not teach a three-dimensional model management system that obtains hierarchical structure expressing combination structure of each part of a three-dimensional model.

Accordingly, withdrawal of the rejection is requested.

NEW CLAIMS:

New claim 14 has been added to highlight that the method of the present invention also acquires "author and creation information of individual three-dimensional parts", which are not taught or suggested by the references cited.

New claim 15 has been added to emphasize that the present invention obtains individualized information of the "...individual three-dimensional parts defined by a computer-aided design system and hierarchical information expressing combination structure of each part including three-dimensional part specific to the computer-aided design system". Accordingly, an efficient three-dimensional model management system for maintaining information consistent with systems maintaining individualized information of combined products is

provided.

The feature of the new claims are not taught or suggested by the prior art.

CONCLUSION:

In accordance with the foregoing, it is respectfully submitted that all outstanding objections and rejections have been overcome and that all pending claims are patentably distinguishable over the cited references.

There being no further outstanding objections or rejections, the application is submitted as being in condition for allowance, which action is earnestly solicited.
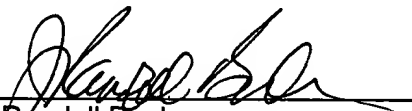
Finally, if there are any formal matters remaining after this response, the Examiner is requested to telephone the undersigned to attend to these matters.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

Date: 3/17/4   By: _____
                         J. Randall Beckers
                         Registration No. 30,358

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